

Datasheet for ABIN3095750

SUZ12 Protein (AA 1-739) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	SUZ12
Protein Characteristics:	AA 1-739
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SUZ12 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	<p>MAPQKHGGGG GGGSGPSAGS GGGGFGGSAA VAAATASGGK SGGGSCGGGG SYSASSSSSA</p> <p>AAAAGAAVLP VKKPKMEHVQ ADHELFLQAF EKPTQIYRFL RTRNLIPIF LHRTLTYMSH</p> <p>RNSRTNIKRK TFKVDDMLSK VEKMKGEQES HLSAHLQLT FTGFFHKNDK PSPNSENEQN</p> <p>SVTLEVLLVK VCHKKRKDVS CPIRQVPTGK KQVPLNPDNL QTKPGNFPSL AVSSNEFEPS</p> <p>NSHMKVSYSL LFRVTRPGRR EFNGMINGET NENIDVNEEL PARRKRNRD GEKTFVAQMT</p> <p>VFDKNRRLQL LDGEYEVAMQ EMEECPISKK RATWETILDG KRLPPFETFS QGPTLQFTLR</p> <p>WTGETNDKST APIAKPLATR NSESLHQENK PGSVKPTQTI AVKESLTDDL QTRKEKDTN</p> <p>ENRQKLRIFY QFLYNNNTRQ QTEARDDLHC PWCTLNCRKL YSLLKHLKLC HSRFIFNYVY</p> <p>HPKGARIDVS INECYDGSYA GNPQDIHRQP GFAFSRNGPV KRTPIHILV CRPKRTKASM</p> <p>SEFLESEGE VEQRQTYSSG HNRLYFHSMT CLPLRPQEME VDSEDEKDPE WLREKTITQI</p> <p>EEFSDVNEGE KEVMKLWNLH VMKHGFIADN QMNHACMLFV ENYGQKIIKK NLCRNFMHL</p>

VSMHDFNLIS IMSIDKAVTK LREMQQKLEK GESASPANEE ITEEQNGTAN GFSEINSKEK
ALETDSVSGV SKQSKKQKL

Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a **made-to-order protein** and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

The big advantage of ordering our **made-to-order proteins** in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

Product Details

Purity: > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Grade: custom-made

Target Details

Target: SUZ12

Alternative Name: SUZ12 ([SUZ12 Products](#))

Background: Polycomb protein SUZ12 (Chromatin precipitated E2F target 9 protein) (ChET 9 protein) (Joined to JAZF1 protein) (Suppressor of zeste 12 protein homolog),FUNCTION: Polycomb group (PcG) protein. Component of the PRC2 complex, which methylates 'Lys-9' (H3K9me) and 'Lys-27' (H3K27me) of histone H3, leading to transcriptional repression of the affected target gene (PubMed:15225548, PubMed:15231737, PubMed:15385962, PubMed:16618801, PubMed:17344414, PubMed:18285464, PubMed:28229514, PubMed:29499137, PubMed:31959557). The PRC2 complex may also serve as a recruiting platform for DNA methyltransferases, thereby linking two epigenetic repression systems (PubMed:12435631, PubMed:12351676, PubMed:15385962, PubMed:15099518, PubMed:15225548, PubMed:15684044, PubMed:16431907, PubMed:18086877, PubMed:18285464). Genes repressed by the PRC2 complex include HOXC8, HOXA9, MYT1 and CDKN2A (PubMed:15231737, PubMed:16618801, PubMed:17200670, PubMed:31959557). {ECO:0000269|PubMed:12351676, ECO:0000269|PubMed:12435631, ECO:0000269|PubMed:15099518, ECO:0000269|PubMed:15225548, ECO:0000269|PubMed:15231737, ECO:0000269|PubMed:15385962, ECO:0000269|PubMed:15684044, ECO:0000269|PubMed:16431907, ECO:0000269|PubMed:16618801, ECO:0000269|PubMed:17200670, ECO:0000269|PubMed:17344414, ECO:0000269|PubMed:18086877, ECO:0000269|PubMed:18285464, ECO:0000269|PubMed:28229514, ECO:0000269|PubMed:29499137, ECO:0000269|PubMed:31959557}.

Molecular Weight: 83.1 kDa

UniProt: [Q15022](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Application Details

Comment:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.</p> <p>During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!</p>
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
Buffer:	<p>The buffer composition is at the discretion of the manufacturer.</p> <p>Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.</p>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months